

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1. (Currently Amended) A moisture transfer composite comprising a plurality of layers arranged to transfer moisture in a predetermined direction, the moisture transfer composite comprising:

an inner fabric layer;

an outer fabric layer positioned relative to the inner fabric layer in the direction of moisture flow, wherein moisture flows from the inner fabric layer through any intermediate layers and then through the outer fabric layer; and

at least one foam material positioned between the inner fabric layer and the outer fabric layer, wherein the outer fabric layer is made to have waterproof/breathable characteristics ~~by employing encapsulation technology and~~ wherein the foam material is an open-cell foam that is positioned adjacent to a nonwoven material and wherein microencapsulation technology which can adjust to temperature changes is applied to either the foam material or nonwoven material thereby giving either material reversible enhanced thermal properties.

2. (Previously Presented) The moisture transfer composite according to claim 1, wherein a wetting agent is applied to the inner fabric layer in order to increase moisture transfer.

3. (Previously Presented) The moisture transfer composite according to claim 1, wherein the outer fabric layer is made to have waterproof/breathable characteristics by attaching a waterproof/breathable membrane thereto.

4. (Canceled)

4 ~~5~~. (Previously Presented) The moisture transfer composite according to claim 1, wherein the outer fabric layer is made to have waterproof/breathable characteristics by application of a waterproof film.

6-10. (Canceled)

5 ~~11~~. (Previously Presented) The moisture transfer composite according to claim 1, wherein the foam material has reversible enhanced thermal properties.

12-13. (Canceled)

16 ~~14~~. (Currently Amended) A moisture transfer composite comprising a plurality of layers arranged to transfer moisture in a predetermined direction, the moisture transfer composite comprising:

an inner fabric layer;

an outer fabric layer positioned relative to the inner fabric layer in the direction of moisture flow, wherein moisture flows from the inner fabric layer through any intermediate layers and then through the outer fabric layer; and

at least one foam material positioned between the inner fabric layer and the outer fabric layer, wherein the foam material is an antimicrobial, germicidal, open-cell foam that is positioned adjacent to a nonwoven material, and wherein the outer fabric layer has waterproof/breathable characteristics ~~by employing encapsulation technology~~; and wherein microencapsulation technology which can adjust to temperature changes is applied to either the foam material or nonwoven material thereby giving either material reversible enhanced thermal properties..

17 ~~16~~ (Previously Presented) The moisture transfer composite according to claim ~~14~~¹⁶, wherein a wetting agent is applied to the inner fabric layer in order to increase moisture transfer.

18 ~~16~~ (Previously Presented) The moisture transfer composite according to claim ~~14~~¹⁶, wherein the outer fabric layer is made to have waterproof/breathable characteristics by attaching a waterproof/breathable membrane thereto.

17. (Canceled)

19 ~~18~~ (Previously Presented) The moisture transfer composite according to claim ~~14~~¹⁶, wherein the outer fabric layer is made to have waterproof/breathable characteristics by either the application of a waterproof film or by the application of a waterproof coating.

19-26. (Canceled)

27 ~~27~~ (Previously Presented) A moisture transfer composite which transfers moisture through a plurality of layers comprising:

- an inner moisture transfer layer;
- a foam material positioned adjacent to the inner moisture transfer layer; and
- a nonwoven material positioned adjacent to the foam layer, wherein moisture is transferred from the inner moisture transfer layer, through the foam layer and subsequently through the nonwoven material and wherein microencapsulation technology which can adjust to temperature changes is applied to either the foam material or nonwoven material thereby giving either material reversible enhanced thermal properties..

28. (Canceled)

28 ~~28~~ (Previously Presented) The moisture transfer composite according to claim 27, wherein the foam material has reversible enhanced thermal properties.

³⁰ ~~30~~. (Previously Presented) The moisture transfer composite according to claim 27, wherein the foam material is an open cell foam material.

⁷ ~~31~~. (Previously Presented) The moisture transfer composite according to claim 1, wherein the inner fabric layer includes at least polyester or a polyester blend.

²⁰ ~~32~~. (Previously Presented) The moisture transfer composite according to claim ~~14~~¹⁶, wherein the inner fabric layer includes at least polyester or a polyester blend.

33. (Canceled)

⁸ ~~34~~. (Previously Presented) The moisture transfer composite according to claim 1, wherein said nonwoven material includes at least one material selected from a group consisting of spandex, wood pulp, cotton, polypropylene, polyester and rayon.

⁶ ~~35~~. (Previously Presented) The moisture transfer composite according to claim ~~14~~⁵, wherein said nonwoven material includes at least one material selected

from a group consisting of spandex, wood pulp, cotton, polypropylene, polyester and rayon.

21 ~~36~~. (Previously Presented) The moisture transfer composite according to claim ~~14~~¹⁶, wherein said nonwoven material includes at least one material selected from a group consisting of spandex, wood pulp, cotton, polypropylene, polyester and rayon.

37. (Canceled)

31 ~~38~~. (Previously Presented) The moisture transfer composite according to claim 27, wherein said nonwoven top material includes at least one material selected from a group consisting of spandex, wood pulp, cotton, polypropylene, polyester and rayon.

29 ~~39~~. (Previously Presented) The moisture transfer composite according to claim ~~28~~²⁵, wherein said nonwoven material includes at least one material selected from a group consisting of spandex, wood pulp, cotton, polypropylene, polyester and rayon.

~~32~~⁴⁰. (Previously Presented) The moisture transfer composite according to claim 27, wherein the inner moisture transfer layer includes at least polyester or a polyester blend.

~~9~~⁴¹. (Previously Presented) The moisture transfer composite according to claim 1, wherein the microencapsulation technology is applied by using a membrane.

~~22~~⁴². (Previously Presented) The moisture transfer composite according to claim ~~14~~¹⁶, wherein microencapsulation technology is applied by using a membrane.

~~33~~⁴³. (Previously Presented) The moisture transfer composite according to claim 27, wherein microencapsulation technology is applied by using a membrane.

~~10~~⁴⁴. (Previously Presented) The moisture transfer composite according to claim 1, wherein the foam material and nonwoven material are formed in a single process as an elastomeric composite.

~~23~~⁴⁵. (Previously Presented) The moisture transfer composite according to claim ~~14~~¹⁶, wherein the foam material and nonwoven material are formed in a single process as an elastomeric composite.

~~34~~ ~~46~~. (Previously Presented) The moisture transfer composite according to claim 27, wherein the foam material and nonwoven material are formed in a single process as an elastomeric composite.

~~11~~ ~~47~~. (Previously Presented) The moisture transfer composite according to claim 1, wherein the application of microencapsulation technology includes application of microcapsules containing phase change materials (PCMs).

~~24~~ ~~48~~. (Previously Presented) The moisture transfer composite according to claim ~~14~~¹⁶, wherein the application of microencapsulation technology includes application of microcapsules containing phase change materials (PCMs).

~~39~~ ~~49~~. (Previously Presented) The moisture transfer composite according to claim 27, wherein the application of microencapsulation technology includes application of microcapsules containing phase change materials (PCMs).

~~12~~ ~~50~~. (Previously Presented) The moisture transfer composite according to claim ~~47~~¹¹, wherein the microcapsules containing PCMs are applied to the foam material or the nonwoven material as a coating.

25 ~~51~~³⁴. (Previously Presented) The moisture transfer composite according to claim ~~48~~³⁴, wherein the microcapsules containing PCMs are applied to the foam material or the nonwoven material as a coating.

40 ~~52~~³⁹. (Previously Presented) The moisture transfer composite according to claim ~~48~~³⁹, wherein the microcapsules containing PCMs are applied to the foam material or the nonwoven material as a coating.

13 ~~53~~¹¹. (Previously Presented) The moisture transfer composite according to claim ~~47~~¹¹, wherein the microcapsules containing PCMs are applied so as to be integrally present in the foam material or the nonwoven material.

26 ~~54~~²⁴. (Previously Presented) The moisture transfer composite according to claim ~~48~~²⁴, wherein the microcapsules containing PCMs are applied so as to be integrally present in the foam material or the nonwoven material.

41 ~~55~~³⁹. (Previously Presented) The moisture transfer composite according to claim ~~48~~³⁹, wherein the microcapsules containing PCMs are applied so as to be integrally present in the foam material or the nonwoven material.

35 ~~56~~³⁴. (Previously Presented) The moisture transfer composite according to claim ~~48~~³⁴, wherein the elastomeric composite has microencapsulation technology

applied thereto by application of microcapsules containing phase change materials (PCMs).

36 ~~57~~. (Previously Presented) The moisture transfer composite according to claim ~~56~~³⁵, wherein the microcapsules containing PCMs are applied to the elastomeric composite as a coating.

37 ~~58~~. (Previously Presented) The moisture transfer composite according to claim ~~57~~³⁵, wherein the microcapsules containing PCMs are applied so as to be integrally present in the elastomeric composite.

38 ~~59~~. (Previously Presented) The moisture transfer composite according to claim ~~48~~³⁴, wherein the elastomeric composite has microencapsulation technology applied thereto by application of a membrane.

14 ~~60~~. (New) The moisture transfer composite according to claim 1, wherein the outer fabric layer is made to have waterproof/breathable characteristics by employing encapsulation technology.

15 ~~61~~. (New) The moisture transfer composite according to claim 1, wherein the outer fabric layer is made to have waterproof/breathable characteristics by employing encapsulation technology.